## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Currently Amended) A method in a computing system for preemptive determination of the potential for atypical clinical event occurrence related to the administering of at least one medication to a person having an electronic medical record (EMR), the method

comprising the steps of:

receiving a selection of the person from a list of patients displayed at a user interface window, wherein the list of patients is extracted from patient-procedure entries stored in a unified healthcare network, and wherein the patient-procedure entries associate the person with a medical procedure;

utilizing the medical procedure associated with the selected person to interact with one or more pre-built medication-procedure tables;

<u>based on the interaction,</u> accessing a list of possible medications, and <u>dosages thereof</u>, that <u>may be are to be administered to the person prior to or during a for the medical procedure</u>;

employing a control server to compare comparing—the medication list to information in a-the person's electronic medical record (EMR), wherein the EMR maintains dosage amounts of the medications the person is taking, foods the person is consuming, and allergies to medications the person is know to have; and

determining whether at least one match exists between any of the medications included in the list and the record-EMR information, wherein the match relating to indicates the potential of an atypical clinical event occurring if

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upon the associated medication were to be being administered to the person[[,]];

and if there is

when a match is determined to exist, outputting a response relating to each

match, respectively, wherein the response indicates a specific medication

involved in the match, a category of the specific medication, a type of match, and

a severity of an associated atypical clinical event, and wherein the type of match

is comprises at least one of drug-drug, drug-allergy, or drug-food.

2. (Currently Amended) The method of claim 1, wherein the step of

accessing a list of possible medications comprises accessing a list of possible medications that

may be administered to a specific person scheduled to undergo a specific type of medical

procedure, and wherein the step of employing a control server to compare comparing the

medication list comprises comparing the medication list to information in the specific person's

EMR-medical record.

3. (Original) The method of claim 1, wherein accessing a list of possible

medications comprises accessing a list of possible medications that may be administered to any

person scheduled to undergo a specific type of medical procedure, and further comprising the

steps of selecting a person to undergo the medical procedure and receiving at least one of the

medications from the list of medications.

4. (Original) The method of claim 1, wherein the atypical clinical event

is one selected from the group consisting of a drug-drug interaction, drug-food interaction, a

drug-allergy interaction, and a drug-gene interaction.

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- 5. (Original) The method of claim 1, wherein the medical procedure includes any medical procedure requiring the use of anesthesia.
- 6. (Original) The method of claim 1, wherein the list of possible medications includes medications used in a medical procedure involving anesthesia.
- 7. (Original) The method of claim 1, wherein the list of possible medications includes medications used in a radiologic medical procedure.
- 8. (Original) The method of claim 1, wherein the list of possible medications includes medications used in an oncologic medical procedure.
  - 9. (Canceled).
- 10. (Currently Amended) The method of claim 1, wherein the response includes a listing of the match and the associated atypical clinical event, and wherein the atypical clinical event is one selected from the group consisting of a drug drug interaction, drug food interaction, drug allergy interaction and a drug gene interaction.
- 11. (Original) The method of claim 10, wherein the list of possible medications includes a dosage amount for each medication in the list, and wherein the response further includes an indication of the predicted severity of the atypical clinical event.
- 12. (Original) The method of claim 10, further comprising displaying information about at least one medication of the list of possible medications that is involved in the match upon selection of the medication at the response.

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13. (Original) The method of claim 1, wherein the list of possible medications is received over a communication network from a remote computing device.

14. (Currently Amended) The method of claim 1, further comprising:

selecting the person from a-the list of person's patients scheduled for a medical procedure; and

accessing the person's <u>medical record EMR</u> prior to comparing the medication list to information in the person's EMR<del>-medical record</del>.

15. (Currently Amended) The method of claim 1, wherein the step of determining whether at least one match exists includes comprises:

querying a data structure containing information selected from one of the groups consisting of drug-drug interactions and drug-food interactions[[,]]; and determining if-weather each-at least one match correlates with one of the drug-drug interactions and drug-food interactions.

- 16. (Currently Amended) The method of claim 1, further comprising retrieving the a specific person's medical record (EMR) prior to comparing the medication list to information in the person's medical record (EMR).
- 17. (Currently Amended) A method in a computing system for preemptive determination of the potential for atypical clinical event occurrence related to the administering of at least one medication to a person having an electronic medical record, the method comprising the steps of:

accessing a pre-defined list of possible medications that <u>may are to</u> be administered <del>prior to or during to</del> the person for a medical procedure;

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employing a control server to compare comparing the medication list to

information in a-the person's electronic medical record (EMR); and

determining whether at least one match exists between any of the

medications included in the list and the record-EMR information, wherein the

match relating to indicates the potential of drug-allergy reactions an atypical

elinical event-occurring if-upon the associated medication were to be-being

administered to the person[[,]]; and if there is

employing the control server to compare the medication list to the

information in the person's electronic medical record (EMR) upon being passed

through an association table, wherein the association table includes information

regarding adverse affects caused by medications interacting with each other and

caused by a medication and a food interacting with each other;

determining whether at least one match exists between any of the

medications included in the list and the EMR information passed through the

association table, wherein the match indicates the potential of drug-drug or food-

drug reactions occurring upon the associated medication being administered to the

person; and

when a match is determined to exist, outputting a response relating to each

match.

18. (Canceled).

19. (Original) The method of claim 17, wherein the medical procedure

includes any medical procedure requiring the use of anesthesia.

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- 20. (Original) The method of claim 17, wherein the list of possible medications includes medications used in a medical procedure involving anesthesia.
- 21. (Currently Amended) The method of claim 17, wherein the information in the person's medical record <u>EMR</u> includes a list selected from one of the groups consisting of medications the person is currently taking or has recently taken, foods the person has consumed, the person's allergies to medications and genetic test information for the person.
- 22. (Currently Amended) The method of claim 17, wherein the response includes a listing of the match and the an associated atypical clinical event, and wherein the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and a drug-gene interaction.
- 23. (Original) The method of claim 22, wherein the list of possible medications includes a dosage amount for each medication in the list, and wherein the response further includes an indication of the predicted severity of the atypical clinical event.
- 24. (Original) The method of claim 22, further comprising displaying information about at least one medication of the list of possible medications that is involved in the match upon selection of the medication at the response.
  - 25. (Currently Amended) The method of claim 17, further comprising: selecting the person from a list of person's scheduled for a medical procedure; and

accessing the person's <u>medical record EMR</u> prior to comparing the medication list to information in the person's EMR<del>-medical record</del>.

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26. (Currently Amended) The method of claim 17, wherein the step of determining whether at least one match exists includes comprises:

querying a data structure the associated table containing information selected from one of the groups consisting of drug-drug interactions and drug-food interactions[[,]]; and

determining <u>if each whether</u> at least one match correlates with one of the drug-drug interactions and drug-food interactions.

- 27. (Currently Amended) The method of claim 17, further comprising retrieving a specific person's medical record\_EMR\_prior to comparing the medication list to information in the person's medical record\_EMR.
- 28. (Currently Amended) The method of claim 17, further comprising modifying the medication list by adding or deleting medications from the list prior to comparing the medication list to information in the person's medical record-EMR.
- 29. (Currently Amended) A method in a computing system for preemptive determination of the potential for atypical clinical event occurrence related to the administering of at least one medication to a person having an electronic medical record, the method comprising the steps of:

accessing a pre-defined list of possible medications that may are to be administered;

employing a control server to compare comparing the medication list to information in a-the person's electronic medical record (EMR); and

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determining whether at least one match exists between any of the

medications included in the list and the record-EMR information, wherein the

match relating to indicates the potential of drug-allergy reactions an atypical

clinical event-occurring if upon the associated medication were to be being

administered to the person[[,]]; and if there is

employing the control server to compare the medication list to the

information in the person's electronic medical record (EMR) upon being passed

through an association table, wherein the association table includes information

regarding adverse affects caused by medications interacting with each other and

caused by a medication and a food interacting with each other;

determining whether at least one match exists between any of the

medications included in the list and the EMR information passed through the

association table, wherein the match indicates the potential of drug-drug or food-

drug reactions occurring upon the associated medication being administered to the

person; and

when a match is determined to exist, outputting a response relating to each

match.

30. (Original) The method of claim 29, wherein the at least one

medication is to be administered to the person prior to or during a medical procedure, and

wherein the medication list includes a universal set of medications that may be administered

regardless of the type of medical procedure.

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a drug-gene interaction.

31. (Currently Amended) The method of claim 29, <u>further comprising</u>, <u>based</u> on the <u>determinations</u>, <u>selecting wherein the an</u> atypical clinical event <u>is one selected from</u> the group consisting of a drug-drug interaction, drug-food interaction, a drug-allergy interaction, and

32. (Original) The method of claim 29, wherein the at least one medication is to be administered to the person prior to or during a medical procedure, and wherein the medical procedure includes any medical procedure requiring the use of anesthesia.

- 33. (Currently Amended) The method of claim 29, wherein the information in the person's medical record <u>EMR</u> includes a list selected from one of the groups consisting of medications the person is currently taking or has recently taken, foods the person has consumed, the person's allergies to medications and genetic test information for the person.
- 34. (Currently Amended) The method of claim [[29]]31, wherein the response includes a listing of the match and the associated atypical clinical event, and wherein the atypical clinical event is one selected from the group consisting of a drug drug interaction, drug food interaction, drug allergy interaction and a drug gene interaction.
- 35. (Currently Amended) A computing system for preemptively determining the potential for atypical clinical event occurrence related to the administering of a medication to a person having an electronic medical record (EMR), the computer system comprising a processing device coupled to a computer storage medium, the computer storage medium having stored thereon a plurality of program components executable by the processing device, the program components comprising:

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a receiving component that receives a list of possible medications that may

be are administered prior to or during for a medical procedure;

a comparing component for comparing the medication list to information

in a person's <u>electronic</u> medical record (EMR);

a determining component that determines whether a match exists between

any of the medications included in the list and the medical record-EMR

information, wherein the match relating to-indicates the potential of drug-allergy

reactions an atypical clinical event occurring if upon the associated medication

were to be being administered to the person; and

the comparing component further configured to compare the medication

list to the information in the person's electronic medical record (EMR) upon being

passed through an association table, wherein the association table includes

information regarding adverse affects caused by medications interacting with each

other and caused by a medication and a food interacting with each other;

the determining component being further configured to determine whether

at least one match exists between any of the medications included in the list and

the EMR information passed through the association table, wherein the match

indicates the potential of drug-drug or food-drug reactions occurring upon the

associated medication being administered to the person; and

an outputting component that outputs a response relating to each match.

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- 36. (Original) The system of claim 35, wherein the receiving component receives a list of possible medications that may be administered to a specific person scheduled to undergo a specific type of medical procedure, and wherein the comparing component compares the medication list to information in the specific medical record.
- 37. (Original) The system of claim 35, wherein the receiving component receives a list of possible medications that may be administered to any person scheduled to undergo a specific type of medical procedure, and further comprising a selecting component for selecting a person to undergo the medical procedure and receive at least one of the medications from the list of medications.
- 38. (Currently Amended) The computing system of claim 35, wherein determining component is further configured to select an the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and a drug-gene interaction.
- 39. (Original) The computing system of claim 35, wherein the list of possible medications received includes medications used in a medical procedure involving anesthesia.
- 40. (Original) The computing system of claim 35, wherein the list of possible medications received includes medications used in a radiologic medical procedure.
- 41. (Original) The computing system of claim 35, wherein the list of possible medications received includes medications used in a oncologic medical procedure.

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42. (Currently Amended) The computing system of claim 35, further comprising a retrieving component that retrieves a specific person's medical record EMR from a unified healthcare system, and wherein information in the medical record EMR includes a list selected from one of the groups consisting of medications the person is currently taking or has recently taken, foods the person has consumed the person's allergies to medications and genetic test information for the person.

- 43. (Currently Amended) The computing system of claim [[35]]38, wherein the outputting component includes a display component that displays the outputted response as a listing of at least one of the matches and the associated atypical clinical event, and wherein the atypical clinical event is one selected from the group consisting of a drug drug interaction, drug food interaction, drug allergy interaction and a drug gene interaction.
- 44. (Currently Amended) The computing system of claim [[44]]43, wherein the list of possible medications received includes a dosage amount for each medication in the list, and wherein the outputted response further includes an indication of the predicted severity of the atypical clinical event.
- 45. (Original) The computing system of claim 44, further comprising a selecting component for selecting a medication of the list of possible medications that is involved in the match, and wherein the display component displays information about the selected medication.
- 46. (Original) The computing system of claim 35, wherein the receiving component receives the list of possible medications to be administered over a communication network from a remote computing device.

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47. (Canceled).

48. (Currently Amended) A computing system for preemptively determining

the potential for atypical clinical event occurrence related to the administering of a medication to

a person having an electronic medical record (EMR), the computer system comprising a

processing device coupled to a computer storage medium, the computer storage medium having

stored thereon a plurality of program components executable by the processing device, the

program components comprising:

an accessing component that accesses a pre-defined list of possible

medications that may be are administered prior to or during for a medical

procedure;

a comparing component for comparing the medication list to information

in a person's <u>electronic</u> medical record <u>(EMR)</u>;

a determining component that determines whether a match exists between

any of the medications included in the list and the medical record EMR

information, wherein the match relating to indicating the potential of drug-allergy

reactions an atypical clinical event-occurring if upon the associated medication

were to be being administered to the person; and

the comparing component further configured to compare the medication

list to the information in the person's electronic medical record (EMR) upon being

passed through an association table, wherein the association table includes

information regarding adverse affects caused by medications interacting with each

other and caused by a medication and a food interacting with each other;

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the determining component being further configured to determine whether

at least one match exists between any of the medications included in the list and

the EMR information passed through the association table, wherein the match

indicates the potential of drug-drug or food-drug reactions occurring upon the

associated medication being administered to the person; and

an outputting component that outputs a response relating to each match.

49. (Currently Amended) The computing system of claim 48, wherein the

determining component is further configured to select an the atypical clinical event is one

selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy

interaction and a drug-gene interaction.

50. (Original) The computing system of claim 48, wherein the list of

possible medications received includes medications used in a medical procedure involving

anesthesia.

51. (Currently Amended) The computing system of claim 48, further

comprising a retrieving component that retrieves a specific person's medical record-EMR from a

unified healthcare system, and wherein information in the medical record-EMR includes a list

selected from one of the groups consisting of medications the person is currently taking or has

recently taken, foods the person has consumed the person's allergies to medications and genetic

test information for the person.

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- 52. (Currently Amended) The computing system of claim [[48]]49, wherein the outputting component includes a display component that displays the outputted response as a listing of at least one of the matches and the associated atypical clinical event, and wherein the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and a drug-gene interaction.
- 53. (Original) The computing system of claim 52, wherein the list of possible medications received includes a dosage amount for each medication in the list, and wherein the outputted response further includes an indication of the predicted severity of the atypical clinical event.
- 54. (Original) The computing system of claim 52, further comprising a selecting component for selecting a medication of the list of possible medications that is involved in the match, and wherein the display component displays information about the selected medication.
- 55. (Original) The computing system of claim 48, wherein the receiving component receives the list of possible medications to be administered over a communication network from a remote computing device.
  - 56. (Canceled).
- 57. (Currently Amended) A computer readable medium Computer storage media containing computer-executable instructions that, when executed, perform a method for controlling a computing system for preemptive determination of the potential for atypical clinical event occurrence related to the administering of at least one medication to a person having an electronic medical record (EMR), the method comprising the steps of:

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receiving a list of possible medications that may be are to be administered prior to or during for a medical procedure;

comparing the medication list to information in a-the person's electronic medical record (EMR); and

determining whether at least one match exists between any of the medications included in the list and the record-(EMR) information, wherein the match relating to indicates the potential of drug-allergy reactions an atypical elinical event occurring if upon the associated medication were to be being administered to the person[[,]]; and if there is

comparing the medication list to the information in the person's electronic medical record (EMR) upon being passed through an association table, wherein the association table includes information regarding adverse affects caused by medications interacting with each other and caused by a medication and a food interacting with each other;

determining whether at least one match exists between any of the medications included in the list and the EMR information passed through the association table, wherein the match indicates the potential of drug-drug or food-drug reactions occurring upon the associated medication being administered to the person; and

<u>upon determining</u> a match<u>exists</u>, outputting a response relating to each match.

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58. (Currently Amended) The <del>computer-readable medium computer storage</del>

media of claim 57, wherein receiving a list of possible medications comprises receiving a list of

possible medications that may be administered to a specific person scheduled to undergo a

specific type of medical procedure, and wherein comparing the medication list comprises

comparing the medication list to information in the specific person's EMR-medical record.

59. (Currently Amended) The computer-readable medium computer storage

media of claim 57, wherein receiving a list of possible medications comprises receiving a list of

possible medications that may be administered to any person scheduled to undergo a specific

type of medical procedure, and further comprising selecting a person to undergo the medical

procedure and receive at least one of the medications from the list of medications.

60. (Currently Amended) The computer readable medium computer storage

media of claim 57, wherein the method further comprising selecting an the atypical clinical event

is one selected from the group consisting of a drug-drug interaction, drug-food interaction, a

drug-allergy interaction, and a drug-gene interaction.

61. (Currently Amended) The computer readable medium computer storage

media of claim 57, wherein the medical procedure includes any medical procedure requiring the

use of anesthesia.

62. (Currently Amended) The computer readable medium computer storage

media of claim 57, wherein the list of possible medications includes medications used in a

medical procedure involving anesthesia.

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63. (Currently Amended) The <del>computer readable medium computer storage</del>

media of claim 57, wherein the list of possible medications includes medications used in a

radiologic medical procedure.

64. (Currently Amended) The computer-readable medium computer storage

media of claim 57, wherein the list of possible medications includes medications used in a

oncologic medical procedure.

65. (Currently Amended) The computer-readable medium computer storage

media of claim 57, wherein the information in the person's medical record EMR includes a list

selected from one of the groups consisting of medications the person is currently taking or has

recently taken, foods the person has consumed, the person's allergies to medications and genetic

test information for the person.

66. (Currently Amended) The computer readable medium computer storage

media of claim [[57]]60, wherein the response includes a listing of the match and the associated

atypical clinical event, and wherein the atypical clinical event is one selected from the group

consisting of a drug drug interaction, drug food interaction, drug allergy interaction and drug

gene interaction.

67. (Currently Amended) The computer readable medium computer storage

media of claim 66, wherein the list of possible medications includes a dosage amount for each

medication in the list, and wherein the response further includes an indication of the predicted

severity of the atypical clinical event.

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68. (Currently Amended) The computer-readable medium computer storage

media of claim 66, further comprising displaying information about at least one medication of

the list of possible medications that is involved in the match upon selection of the medication at

the response.

69. (Currently Amended) The computer-readable medium computer storage

media of claim 57, wherein the list of possible medications is received over a communication

network from a remote computing device.

70. (Currently Amended) The computer-readable medium computer storage

media of claim 57, further comprising:

selecting the person from a list of person's scheduled for a medical

procedure; and

retrieving the person's EMR medical record prior to comparing the

medication list to information in the person's EMR-medical record.

71. (Canceled).

72. (Canceled).

73. (Currently Amended) A computer readable medium—Computer storage

media containing computer-executable instructions that, when executed, perform a method for

controlling a computing system for preemptive determination of the potential for atypical clinical

event occurrence related to the administering of at least one medication to a person having an

electronic medical record (EMR), the method comprising the steps of:

accessing a pre-defined list of possible medications that may be are

administered prior to or during for a medical procedure;

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comparing the medication list to information in a-the person's electronic medical record (EMR); and

determining whether at least one match exists between any of the medications included in the list and the record (EMR) information, wherein the match relating to indicates the potential of drug-allergy reactions an atypical elinical event occurring if upon the associated medication were to be being administered to the person[[,]]; and if there is

comparing the medication list to the information in the person's electronic medical record (EMR) upon being passed through an association table, wherein the association table includes information regarding adverse affects caused by medications interacting with each other and caused by a medication and a food interacting with each other;

determining whether at least one match exists between any of the medications included in the list and the EMR information passed through the association table, wherein the match indicates the potential of drug-drug or food-drug reactions occurring upon the associated medication being administered to the person; and

<u>upon determining</u> a match <u>exists</u>, outputting a response relating to each match.

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